

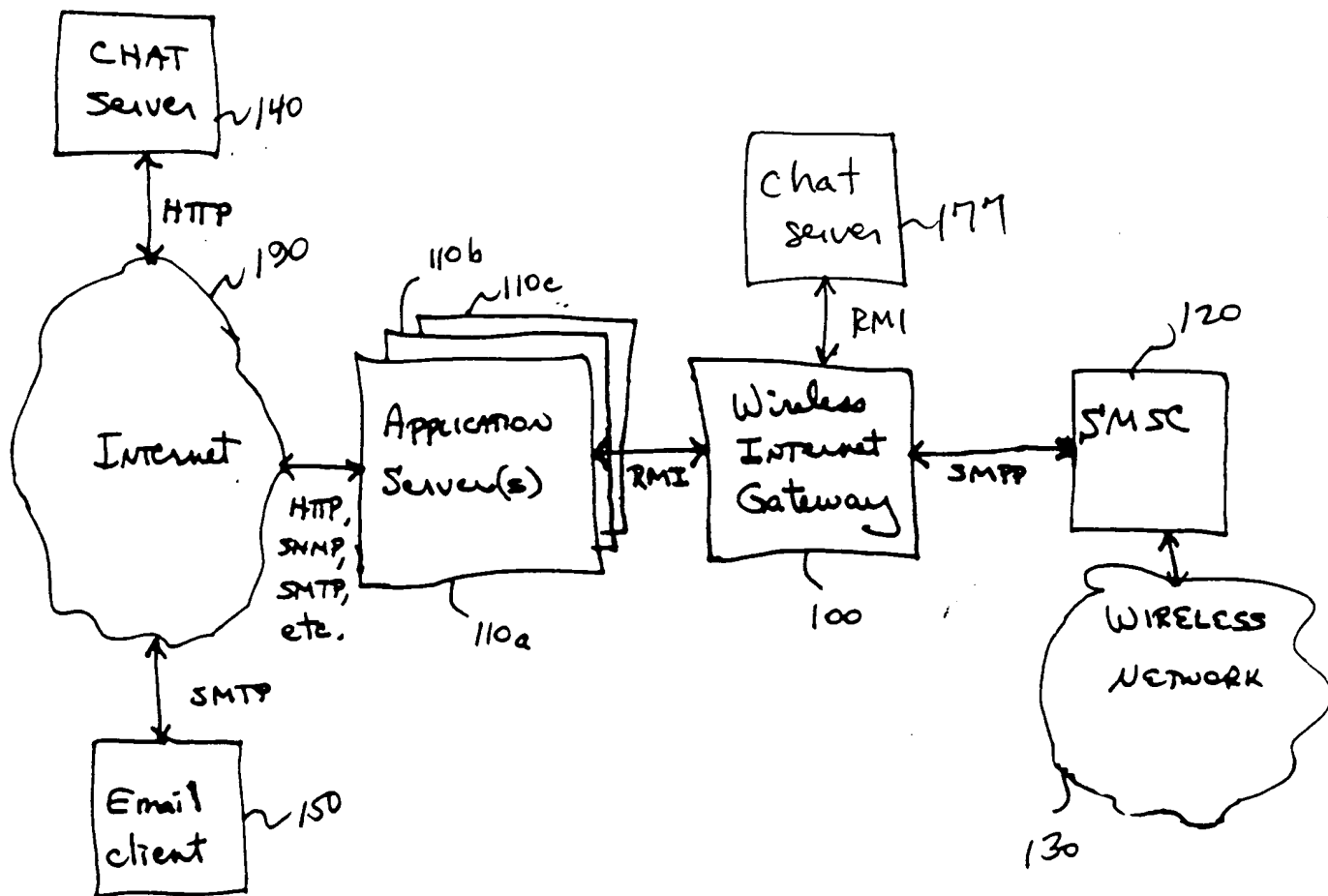
[illegible]

FIG. 1

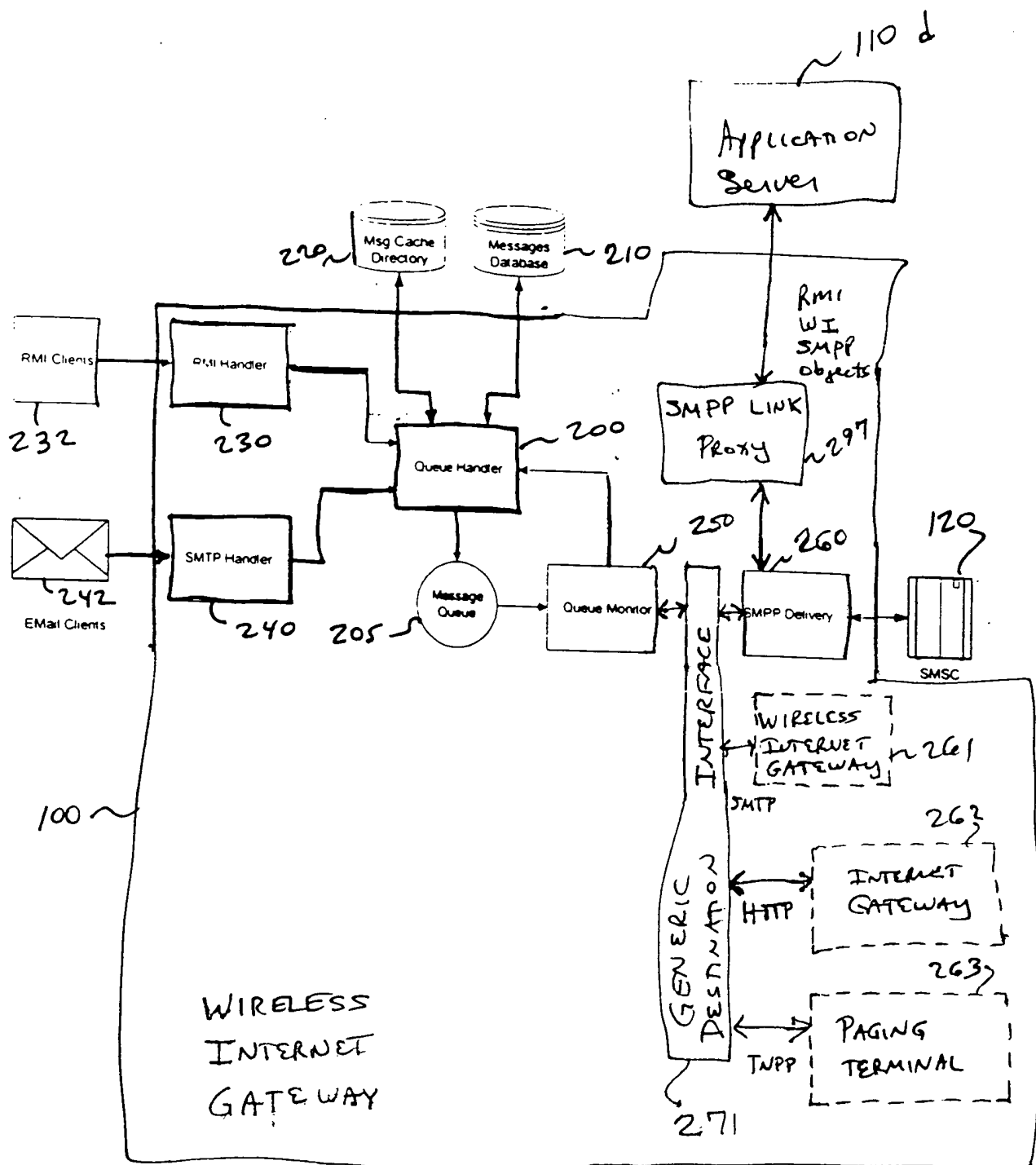
[illegible]

FIG. 2

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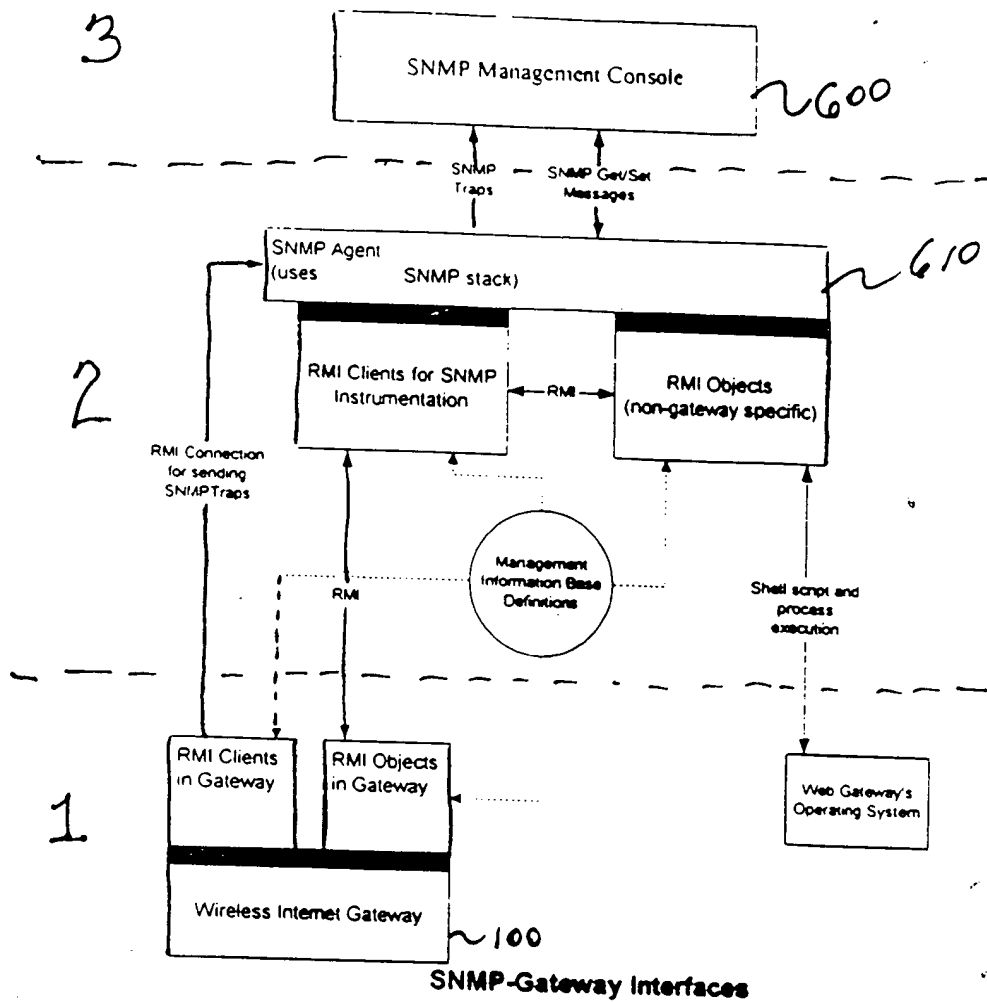


FIG. 3

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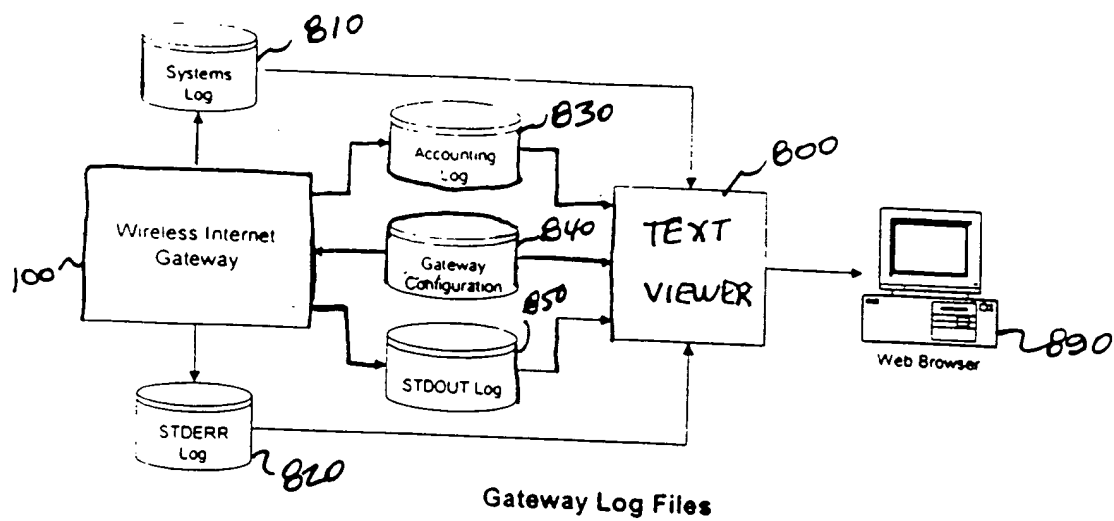


FIG. 4

```

# ----- smscgw.conf: Configuration File for TCS SMS Web Gateway -----
# (c) 1998, 1999, 2000 TCS, Inc.
# ----- Identification -----
GW_ID A # Msg Identifier for GW
GWName admin@demossys.com # Email address for gw msgs
shutdown_MIN 0000000009 # MIN to shutdown gateway
# ----- System Output -----
basedir ./ # base location of files
accountinglogfile logs/acc.log # account log file name
systemlogfile logs/system.log # system log file name
accountingloglevel 9 # Level of accounting log detail
systemloglevel 9 # Level of system log detail
debugmode yes # Sends SMPP info to StdOut
do_email_debug yes # Show SMTP Interactions

smtpSocketTimeout 10 # Time socket waits for input
# before it times out
smtpSocketLinger 10 # Time OS keeps socket alive
# after application closes socket
smtpListenerSleepInterval 50 # Time (milliseconds) to pause
# between successive SMTP connections
# 50 milliseconds implies 200
# connections per second

# ----- Database References -----
MessageStoreType DB # File System (FS) or Database
# (DB) storage or None or DB Cache (DBC)

# Connection information for accessing the Message Store
MessageStoreDbClass oracle.jdbc.driver.OracleDriver
MessageStoreDbUrl jdbc:oracle:thin:@dbhost.demossys.com:1521:ORCL
MessageStoreDbAccount webdb
MessageStoreDbPw private

msgLifespanHours 8 # How long to retain message data
requeIntervalSecs 60 # How often to requeue unack'd msgs

```

TABLE 1

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```

q_cachePath      ./cache/
q_msgPath        ./messages/
PendingCacheThreshold 50
PollPendingCache 10

```

```

# directory for unack'd msg indicators
# directory for FS database files

```

----- Features -----

```

enable_smtp      yes
smtp_port        25
enable_web       yes
enable_smpp      yes
enable_calendar  no

enable_monitor   yes
memoryCheckRestTime 180000
memoryThreshold  256

msg_maxlen       90
msg_link_maxlen  150

enable_antispam  yes
SpamMaxSendQty   100
SpamMaxRecvQty   100
SpamTimePeriod   1
SpamInvalidSenders 987.654.321.000
SpamValidSenders  admin@demossys.com
SpamValidReceivers 9876543210,1234567890

forceSNReturnReceipt no

AlwaysDoEmailReceipt no
AlwaysDoEmailReceipt_Exclude demossys.com

validateScheme   0

supportAltAddressing yes
minLength        10
pinLength         6
pinPrefix         P

supportSubmitTranslate no

heartbeatsecs     180
heartbeat         #seconds between heartbeats; 0 = no

```

```

# Enable Email Support
# Port for receiving email
# Enable RMI for Web (and other RMI clients)
# Enable SMPP output to SMSCs (reqd)
# Enable Web Calendar support

# Enable free memory monitor
# ms time for checking avbl memory
# kb threshold for generating alert

# Max length in a single message
# Max total length of msg through linking

# Enable msg qty limitations
# Max no. msgs that can be sent per period
# Max no. msgs that can be recvd per period
# Time period, in hours
# Senders that are always refused
# Sender exempt from anti-spam checks
# Receivers exempt from anti-spam checks

# Always request return receipt from SMSC

# Always send a receipt to E-mail senders
# Senders to exclude if above is enabled

# 0=RANGE, 1=LOOSE, 2=EXPLICIT

# PIN/Alias lookups allowed
# Length of a valid MIN
# Length of a valid PIN
# Prefix to identify PINs

# Do User vs Submit Address (DN/MIN) xlation

```

----- Message Destinations -----

```

sn_count         1
sn_type0         tcs.ain.smsgw.SmsGwSNSMPPLink

```

```

# Number of SMSCs attached

```

```

serializeSmppTraffic yes

```

```

smpp_host0       localhost
smpp_TXport0     7001
smpp_RXport0     7002
smpp_bind_password0 secret
smpp_bind_sysID0 EE
smpp_bind_sysType0 INET GW
smpp_valid_min_range0 3102800000 5102802000
smpp_template0   1
smpp_callback_trigger0 SA
smpp_message_trigger0 SM
smpp_service_type0 PAGE
smpp_src_addr_ton0 0
smpp_src_addr_npi0 0
smpp_dst_addr_ton0 :
smpp_dst_addr_npi0 :

```

```

# Host name of first SMSC
# SMPP Tx port for first SMSC
# SMPP Rx port for first SMSC
# SMSC/SMPP Password
# SMSC/SMPP System ID
# SMPP Client identifier
# SMSC Template for sending messages
# Trigger for embedding callback number
# Trigger for identifying message text
# Service Type; Comment out for Aldiscon
# Type of Number; TCS=0
# Numbering Plan Identity; TCS=0

```

Table 1-Sample Gateway Configuration File (cont)

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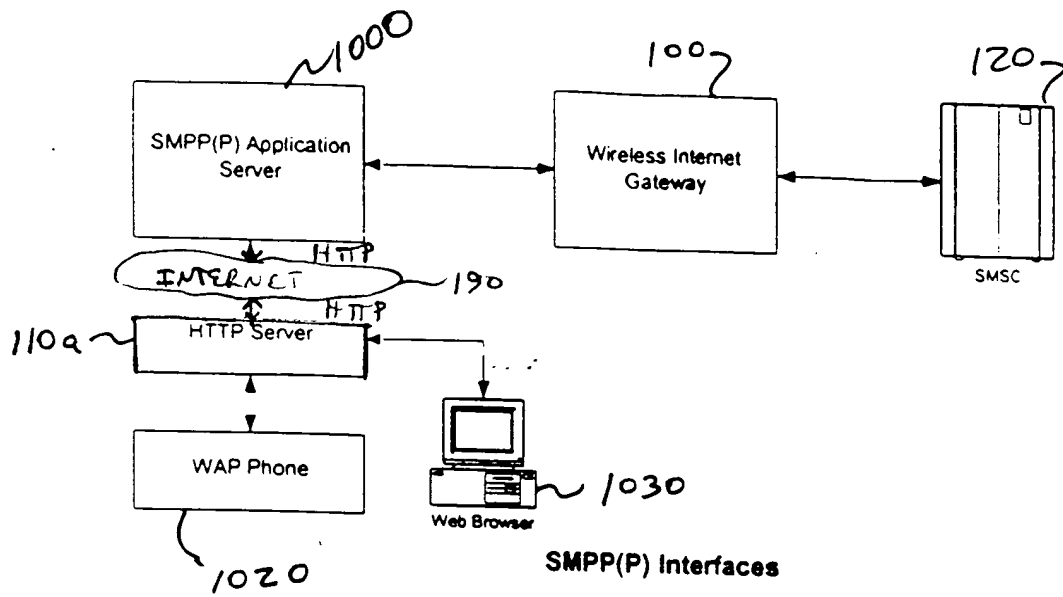


FIG. 5

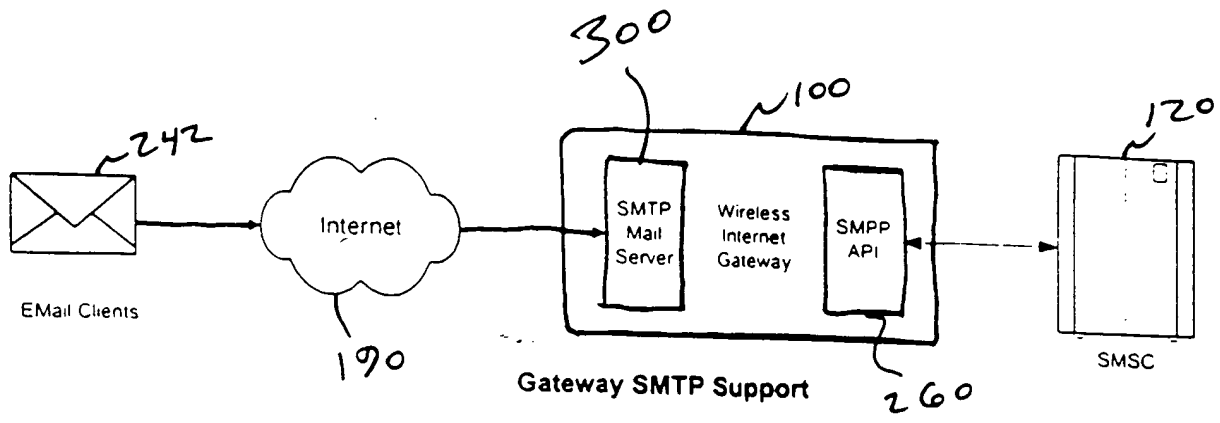
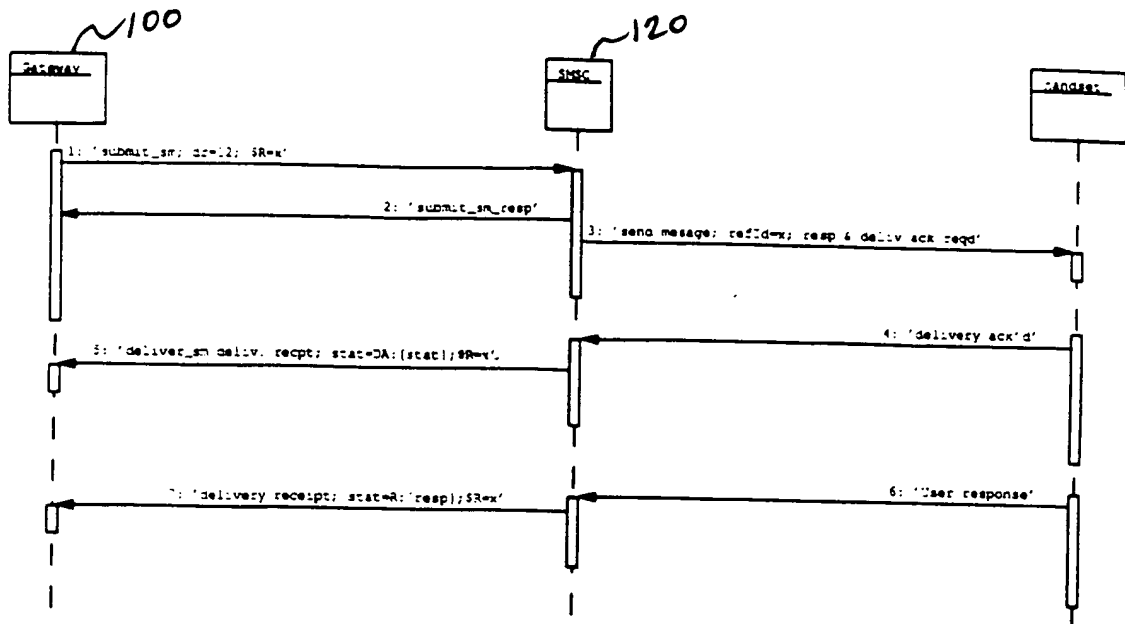


FIG. 6

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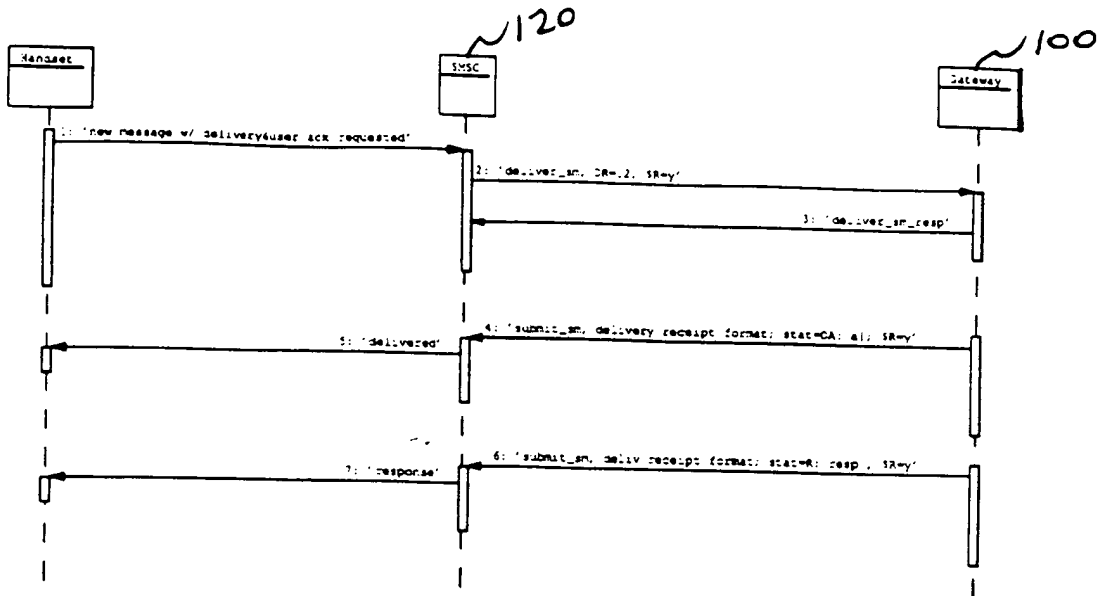
002030-2920E960



Mail Send/Receipt Process from Gateway

FIG. 7A

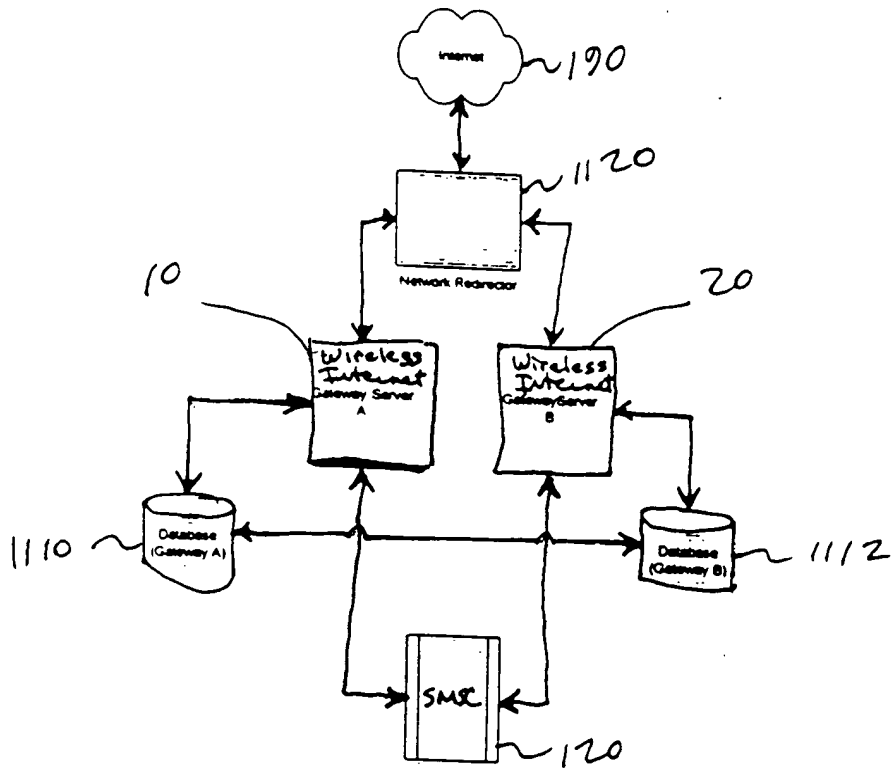
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Mail Send/Receipt Process from Handset

FIG. 7B

002030-2540E950



Redundant Configuration
of Wireless Internet Gateways

FIG. 8

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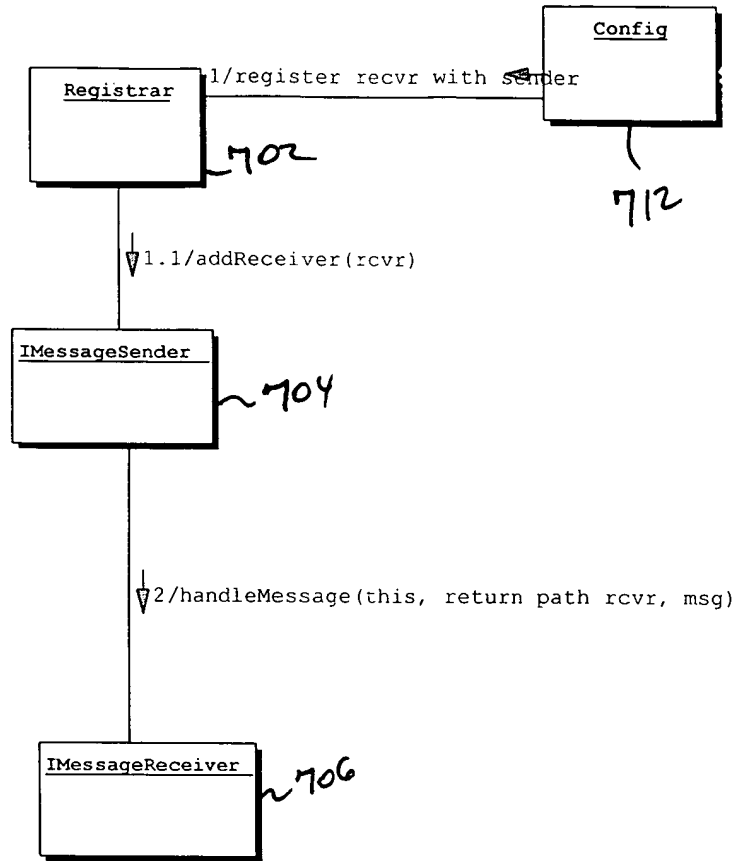


FIG. 9A

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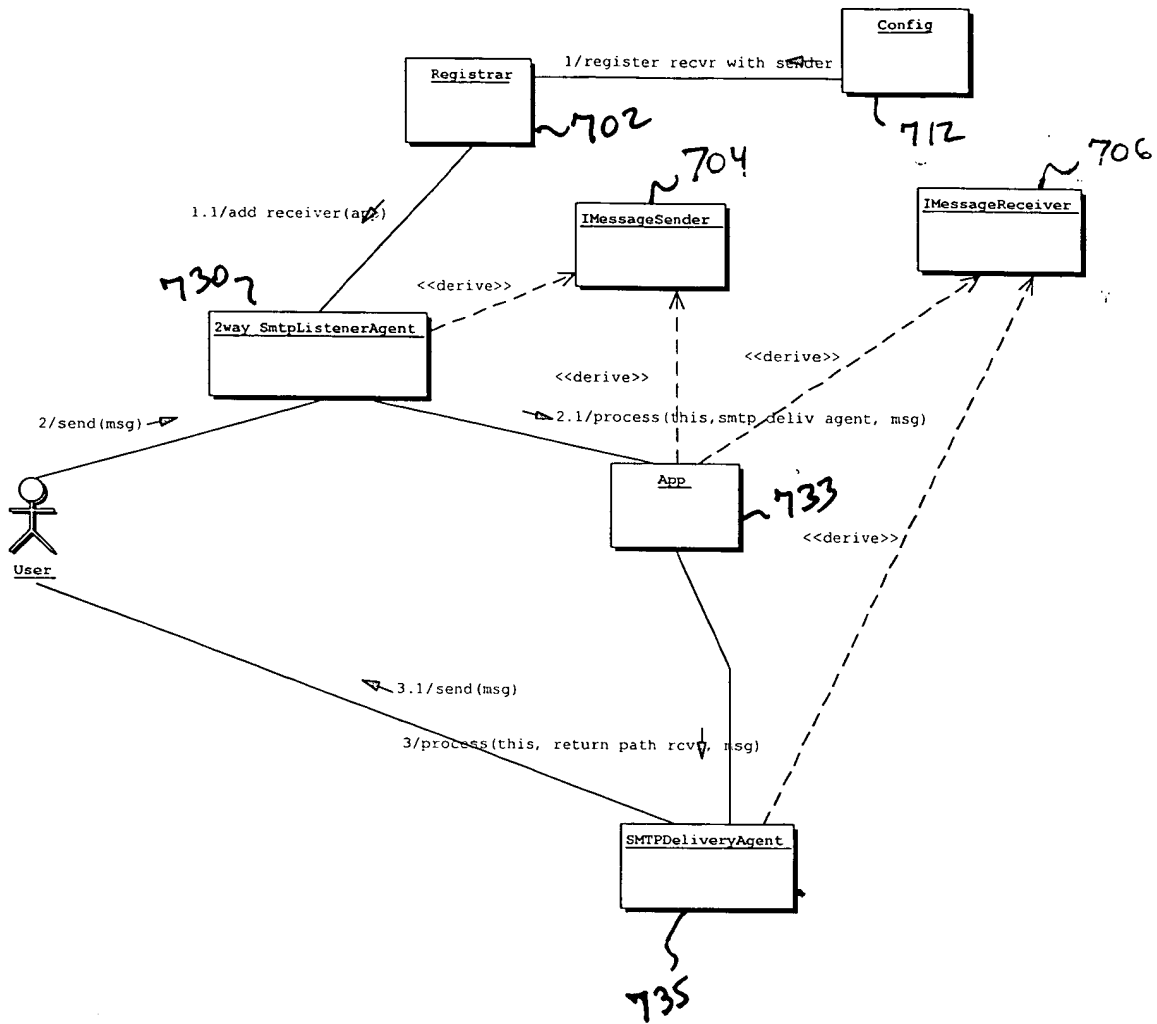


FIG. 9B

002080-29/09560

RMI Scenario

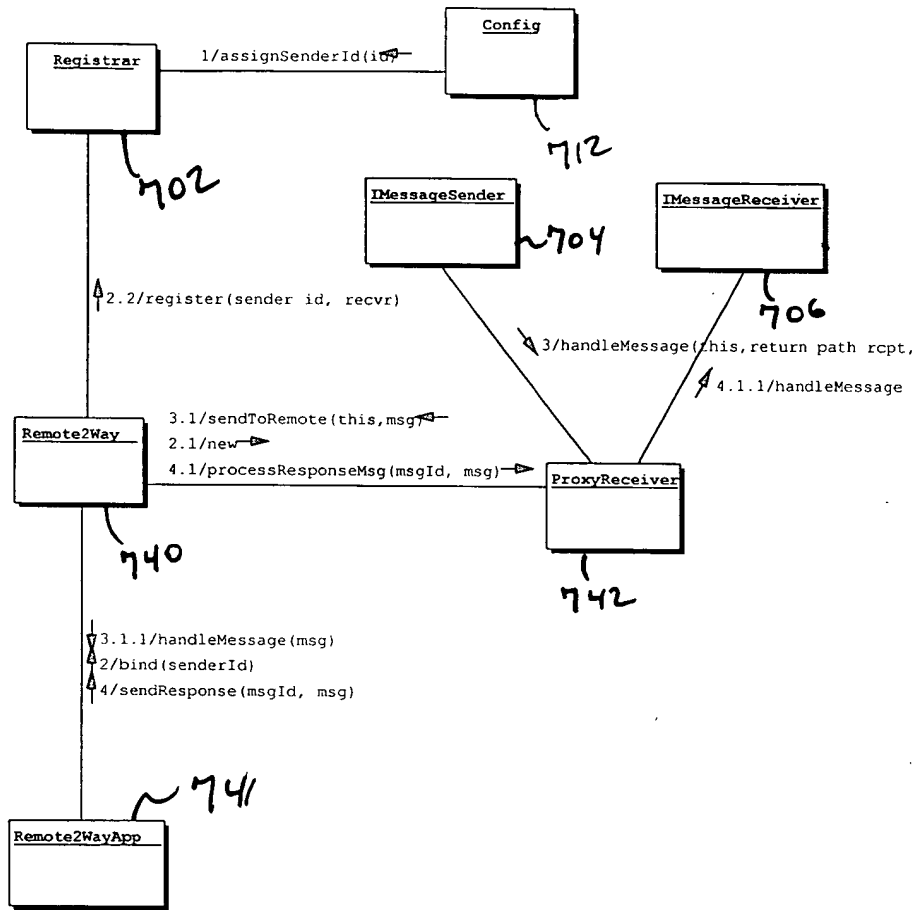


FIG. 9C

Core

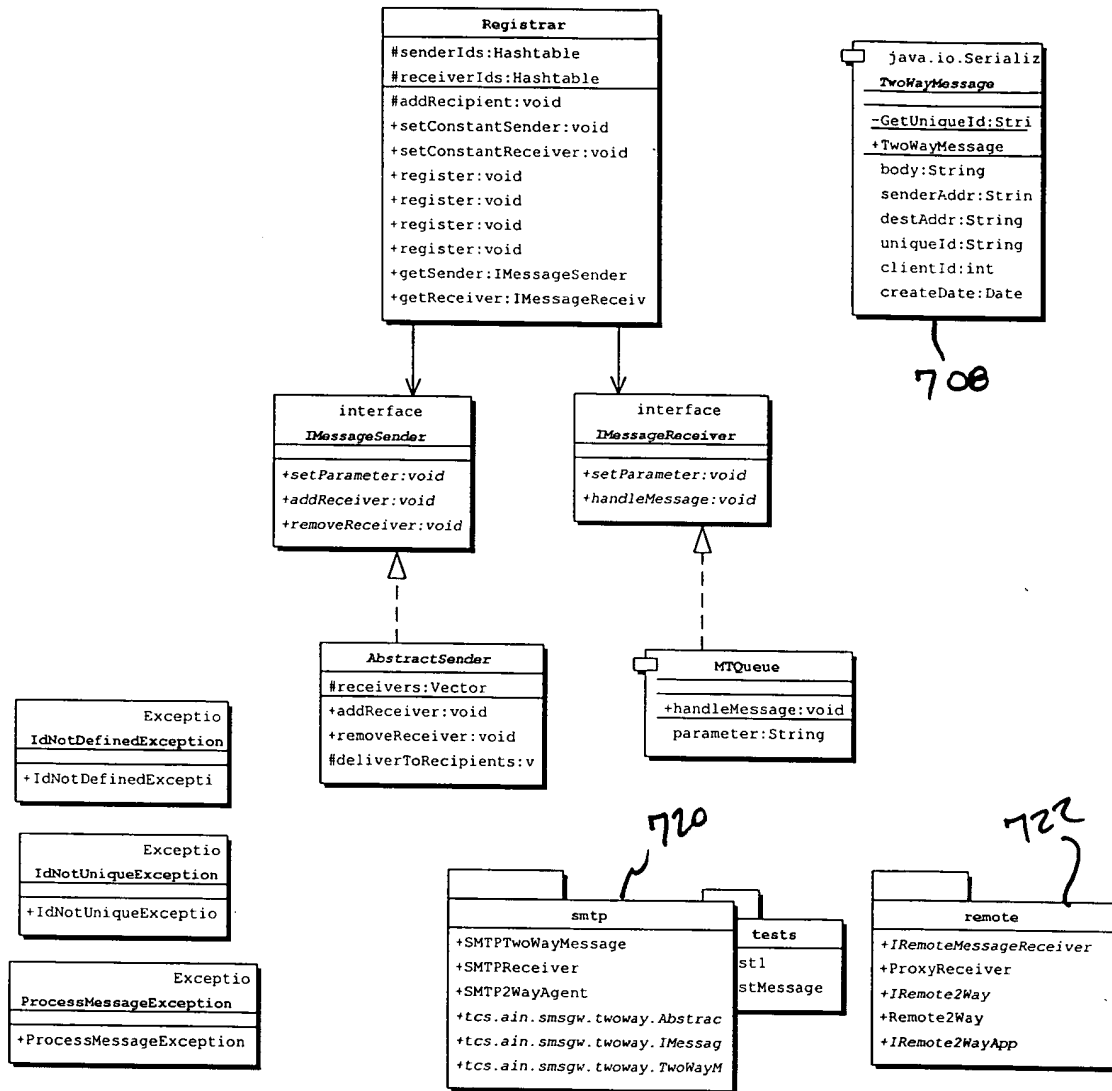


FIG. 10A

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Remote

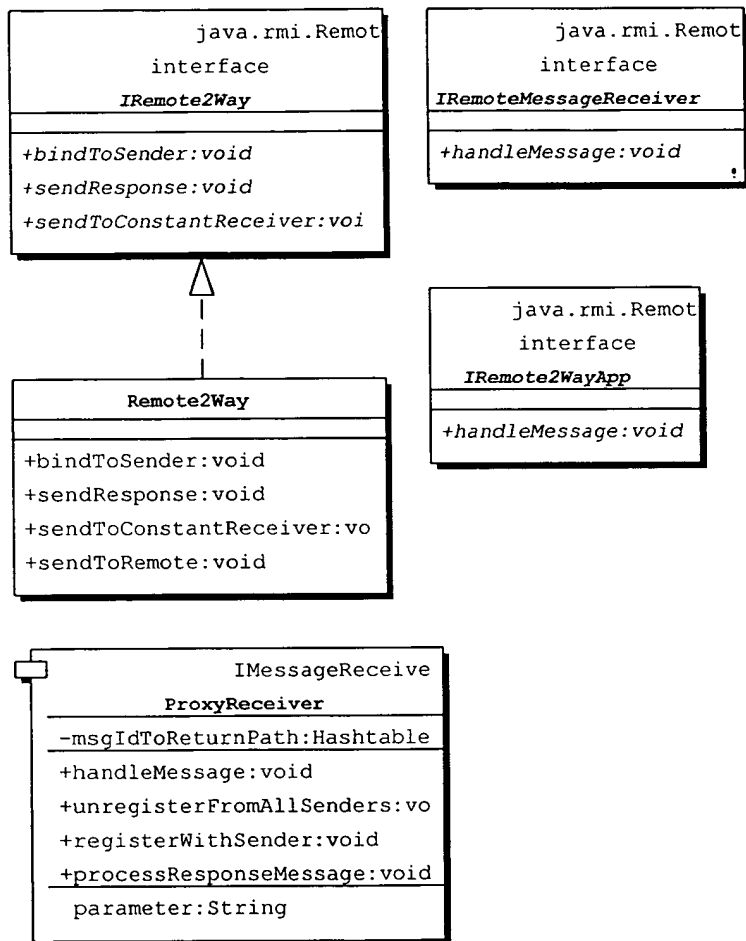


FIG. 10B

SMTP

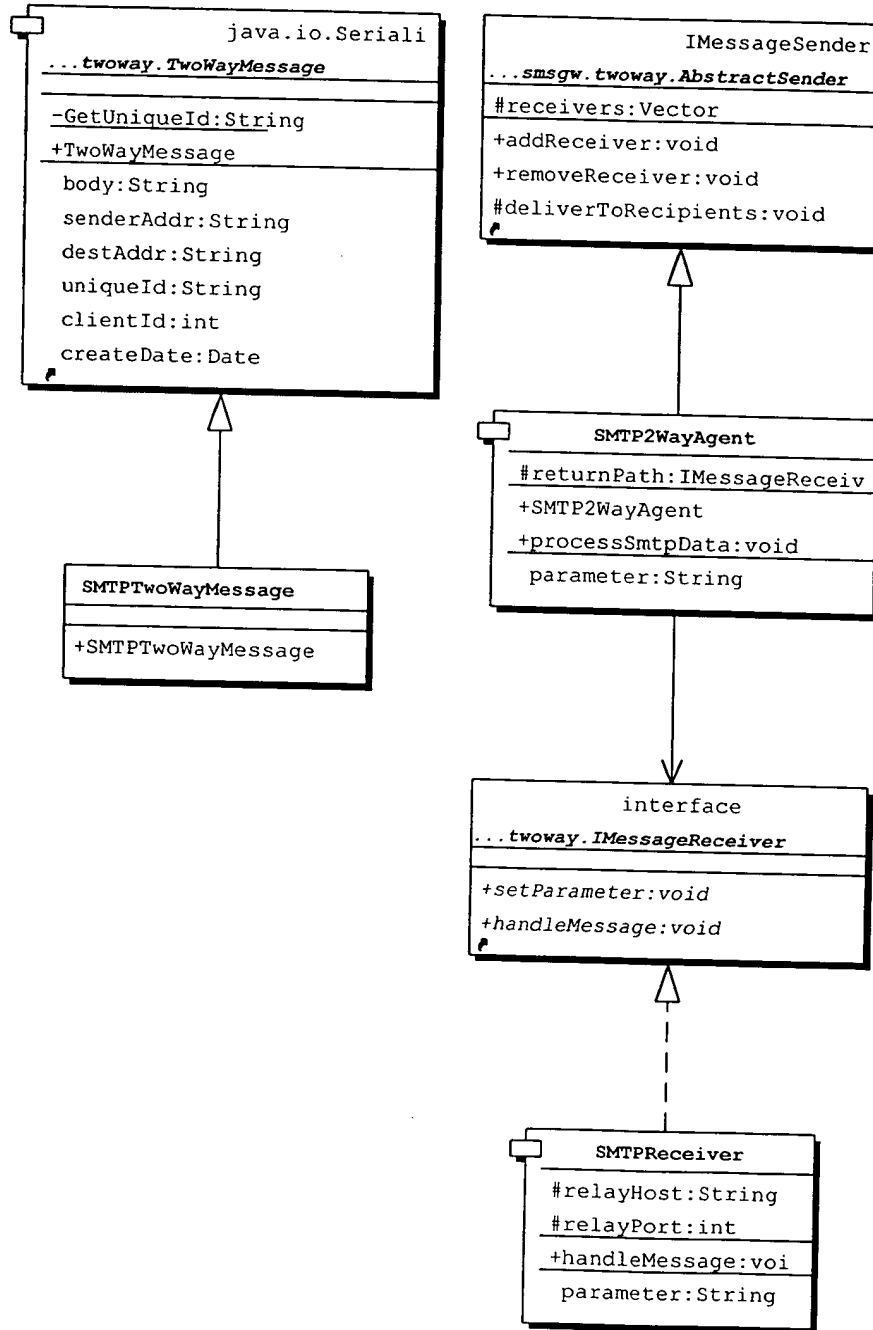


FIG. 10C

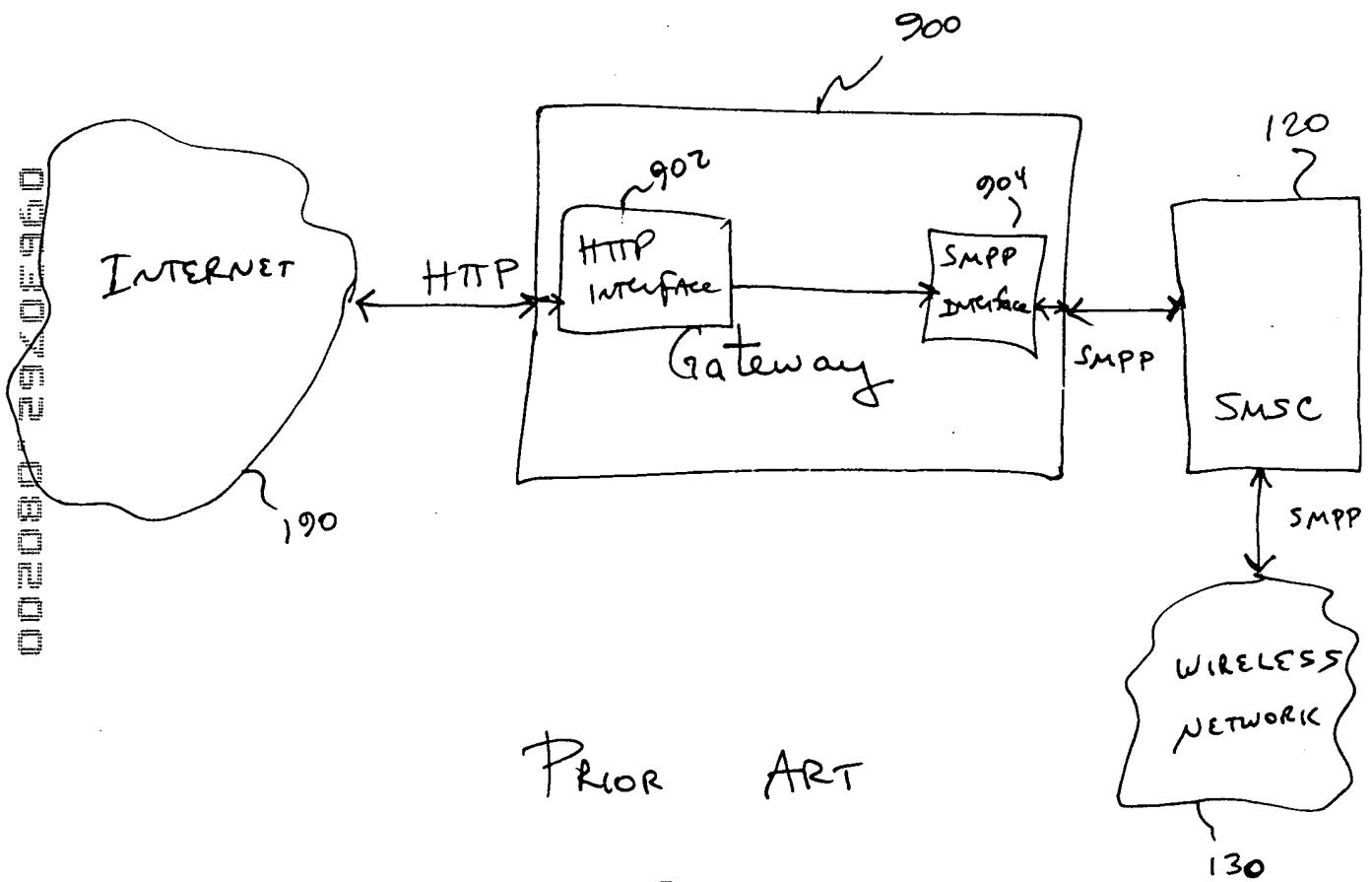


FIG. 11